DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0000519

OFFICE Design Policy & Support

STP00-0000-00(519) GDOT District 4 - Tifton

Worth County

DATE May 23, 2011

SR 133 GRIP; FM North of Colquitt County Line

TO North of SR 112

FROM

for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator Bobby Hilliard, State Program Delivery Engineer Cindy VanDyke, State Transportation Planning Administrator Angela Robinson, Financial Management Administrator Glenn Bowman, State Environmental Administrator Ben Rabun, State Bridge Engineer Kathy Zahul, State Traffic Engineer Georgene Geary, State Materials & Research Engineer Ron Wishon, State Project Review Engineer Jeff Baker, State Utilities Engineer Ken Thompson, Statewide Location Bureau Chief Michael Henry, Systems & Classification Branch Chief Joe Sheffield, District Engineer Brent Thomas, District Preconstruction Engineer Tim Warren, District Utilities Engineer Douglas Fadool, Project Manager BOARD MEMBER - 8th Congressional District

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(519)

County: Worth
P.I. Number: 0000519
Federal Route Number: N/A
State Route Number: 133

The features from the approved concept report being revised are the width of the depressed median, the width of the pavement of the outside shoulder and the length of the storage areas for left turn lanes.

Submitted for approval: DATE 7-24-11	Style 32
DATE TRELI	Office Head (Project Manager's Office)
DATE 2/28/11	Project Manager
	rroject wallager
Recommendation for approval:	
DATE 3/15/2011	Glenn Bowman X State Environmental Administrator
	State Environmental Administrator
DATE 4/26/2011	Ben Rabun *
	State Bridge Design Engineer (if applicable)
The concept as presented herein and submitted for approva Regional Transportation Program (RTP) and/or the State T	
DATE 3/30/2011	Cindy VanDyke ** State Transportation Planning Administrator
* Recommendation on file. KKF	

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Need and Purpose

State Route 133 is a major north-south corridor in South Georgia and provides a vital connection between Valdosta on the south with Albany to the north. The proposed project would improve a 6.57 mile stretch from 2,000 feet north of the Colquitt/Worth County line at Worth County Mile Post 0.46 to 1,500 feet north of SR 112 at Worth County Mile Post 7.03.

This corridor is part of the Governor's Road Improvement Program (GRIP) with adjacent projects programmed between Valdosta and Albany. This program aims to connect 95% of Georgia's cities with a population of 2,500 or more to the Interstate System, ensuring that 98% of all areas of the state are within 20 miles of a four-lane road.

Traffic

The AADT for this roadway is predicted to be 4,560 in the year 2017 and 5,570 in the design year of 2037. This translates to a level of service A for the design year.

Crashes

Within this 6.57 mile project study corridor section, SR 133 is classified as a Minor Arterial, NHS, Rural roadway. A total of 27 crashes occurred within this project study corridor section during the three year analysis period (2007-2009). The most common type of crash was departure crashes (13) where vehicles left the SR 133 roadway. All of these crashes were single vehicle crashes that did not involve another vehicle. Six of these departure crashes occurred at night during dark conditions. The second most common type of crash was right angle crashes (9). In most of the right angle crashes, the side street vehicles were entering onto or crossing SR 133.

In terms of severity, 14 of the 27 crashes were injury crashes (52%) and two were fatal crashes (7%). These severe crashes resulted in a total of 27 injuries and two fatalities. Table 1 presents a summary of the crash rates calculated for each year (2007, 2008, and 2009) including the three-year average and compared against the statewide average crash rates for similar facilities.

Year	Туре	Project Study Cori	Statewide Average		
1 cai	Type	Number of Crashes	Crash Rate*	Crash Rate*	
	Crashes	6	57	149	
2007	Injuries	4	38	67	
	Fatalities	1	9.41	1.60	
	Crashes	10	94	152	
2008	Injuries	5	47	75	
	Fatalities	0	0.00	1.85	
	Crashes	11	104	142	
2009	Injuries	5	47	74	
	Fatalities	1	9.41	1.75	

Base Year: (2017) 4,560

P.I. Number: 0000519

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County: Worth

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2007 2000	Crashes	27	85	148
2007-2009 Overall Average	Injuries	14	44	72
Overall Average	Fatalities	2	6.28	1.73

^{*}Indicates the crash rate shown is per 100 million vehicle miles (MVM).

Note: The project crash rates shown in bold represent values that exceeded the statewide average crash rate.

As shown in Table 1, the project's 2007-2009 overall average crash rates for crash and injury types were below the statewide average crash rates. However, the project's 2007-2009 overall average fatality crash rate was above the statewide average crash rate. In addition, both the fatality crash rate in 2007 and 2009 exceeded the statewide average crash rate.

Description of the approved concept: Project No. STP00-0000-00(519) had proposed to widen and reconstruct the existing two-lane (24-ft) roadway to two 12-ft lanes in each direction with 10-ft outside shoulders and 6-ft inside shoulders, from 2,300 feet north of the Colquitt/Worth County line at Worth County Mile Post 0.5 to SR 112 at Worth County Mile Post 6.6. The mainline would have a proposed design speed of 65 mph.

In order to match the alignment of this project to Project No. STP00-0000-00(520) to the south, the project would widen to the east, adding two northbound lanes while maintaining the existing alignment to the west creating two southbound lanes. Immediately north of "The Cole House", through the addition of new southbound lanes, the alignment would cross over to widen to the west. Approximately 1,000 feet north of Causey Road at Worth County Mile Post 5.0, SR 133 would be located on new alignment to the north. The alignment would then return to the existing corridor, constructing new northbound lanes and retaining the existing lanes for southbound traffic.

In addition to its mandated improvement as a GRIP route, the project would improve the anticipated capacity deficiencies on SR 133 by improving the LOS for the design year (2030). Improving SR 133 to a multi-lane facility with separate turning lanes will reduce turning conflicts from the through traffic and improve operations.

Design Year: (2037) 5,570

PDP Classification:	Major <u>X</u>	Minor	-	
Federal Oversight:	Full Oversight (),	Exempt (X),	State Funded (),	or Other ()
Functional Classificat	tion: Rural Minor A	rterial		
US Route Number(s):	: N/A		State Route Number	er(s): 133
Traffic (AADT) as she Base Year: (20)		-	Design Year: (2030)	10,483
Updated traffic data ((AADT):			

P.I. Number: 0000519

Project Number: STP00-0000-00(519)

County: Worth

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Approved Programmed/Schedule:

P.E.: <u>2003</u> R/W: <u>2014</u> Construction: <u>2019</u>

VE Study Required: Yes(X) No()

Note: A VE Study was held in January 2010 and implemented in July 2010.

Benefit/Cost Ratio: N/A

Is the project located in an Ozone Non-attainment area? Yes () No (X)

Is the project located in a PM2.5 Non-attainment area? Yes () No (X)

Approved Features:

A Value Engineering Study held in January 2010 and implemented in July 2010 recommended the roadway median typical section be revised to a 32-ft depressed median to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs. The Study also recommended reducing storage lengths of left turn lanes to minimum allowable lengths and reducing the paved shoulder from 6.5-ft to 4-ft to reduce construction costs.

Proposed Features:

The 44-ft depressed median was reduced to a 32-ft depressed median. The outside paved shoulder was reduced from 6.5-ft to 4-ft. The storage lengths for left turn lanes were reduced to minimum allowable lengths.

** Note: A 32-ft depressed median is proposed in lieu of the standard GRIP 44-ft depressed median to minimize environmental impacts and displacements. Therefore, a design variance would be required for the median.

Reason for Change:

The reductions in median width, paved shoulder width and left turn storage length were due to the implementation of VE recommendations.

Potential Environmental Impacts of Proposed Revision: Environmental impacts were minimized by reducing the typical section footprint. The roadway median was reduced from a 44-ft depressed median to a 32-ft depressed median.

Have proposed revisions been reviewed by environmental staff? Yes (X) No ()

Environmental Responsibilities: Consultant, GDOT

Updated cost estimates: See attached.

P.I. Number: 0000519

Project Number: STP00-0000-00(519)

County: Worth

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Table 2 – Cost Estimate Summary

STP00-0000-00(519)	
Base Construction Cost:	\$16,231,850
Engineering and Inspection @ 5%:	\$811,593
Fuel Adjustment:	\$1,787,712
Liquid AC Adjustment:	\$2,966,382
Total Construction Cost:	\$21,797,537
Right of Way:	\$6,054,000
Reimbursable Utilities:	\$521,024
Mitigation Costs:	\$448,373
Grand Total Project Cost:	\$28,820,934

Recommendation: It is recommended that the proposed revision to the concept report be approved for implementation.

Attachments:

- 1. Location Map
- 2. Cost Estimate
- 3. Utility Cost Estimate
- 4. Preliminary Right of Way Cost Estimate
- 5. Fuel Adjustment
- 6. Environmental Mitigation Cost Estimate
- 7. Typical Sections
- 8. Value Engineering Implementation Letter
- 9. Approved Traffic Data

Concur:

Director of Engineering

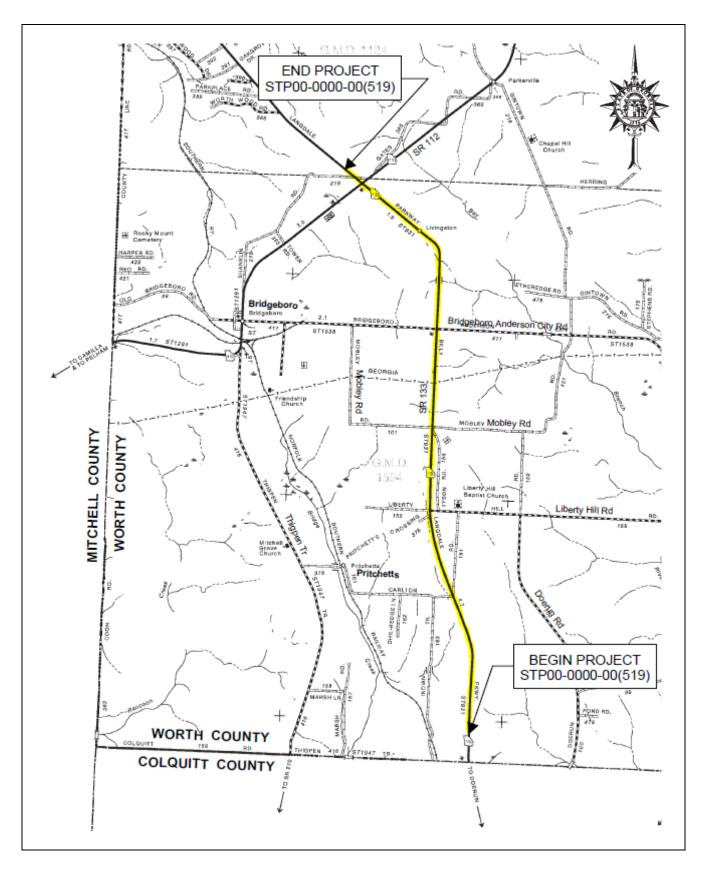
Approve:

Chief Engineer

05/20/1)

ATTACHMENT 1 LOCATION MAP

LOCATION MAP



Project: STP00-0000-00(519) **P.I. No.:** 0000519 **Description:** Widening of SR 133 from 2,000 feet north of the Colquitt/Worth County line to 1,500 feet north of SR 112 in Worth County

ATTACHMENT 2 COST ESTIMATE

COST ESTIMATE SUMMARY

STP00-0000-00(519)	
Base Construction Cost:	\$16,231,850
Engineering and Inspection @ 5%:	\$811,593
Fuel Adjustment:	\$1,787,712
Liquid AC Adjustment:	\$2,966,382
Total Construction Cost:	\$21,797,537
Right of Way:	\$6,054,000
Reimbursable Utilities:	\$521,024
Mitigation Costs:	\$448,373
Grand Total Project Cost:	\$28,820,934

Project No. STP00-0000-00(519) P.I. No. 000519

Description: SR 133 From North of Colquitt County Line to North of SR 112

CONSTRUCTION COST ESTIMATE CONCEPTUAL

No. TEMS:		CONCEPTUAL				
30-1101 SR AGOR BASE CRS, INCL MATL	Item No.	ITEMS:	Unit	Total Qty	Price	Cost
30-1101 SR AGOR BASE CRS, INCL MATL						
318-3000 AGGR SURP CNS 131-005 131-025 131-025 131-025 131-025 140-23121 RECYCLED ASPH CONC 12 5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM		<u> </u>				
402-3101 RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM						
4023190 RECYCLED ASPH CONC 125 MM SUPERPAVE, GP 2 ONLY, INCL BITUM						
402-3190 RECVCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM						
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550-1300 STORM DRAIN PIPE, 30 IN, H 1-10 LF 1304 \$53.76 \$70.103						
590-1420 STORM DRAIN PIPE, 3E IN, H 1-10						
\$50-1420 STORM DRAIN PIPE, 42 IN, H 1-10						
550-1480 STORM DRAIN PIPE, 48 IN, H 1-10						
550-2180 SIDE DRAIN PIPE, 14 IN, H 1-10 LF 2100 \$33,96 \$50,316 550-2240 SIDE DRAIN PIPE, 24 IN, H 1-10 LF 360 \$38,93 \$14,015 550-3318 SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE EA 19 \$665,93 \$78,865 550-3324 SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE EA 5 \$927,47 \$4,637 550-3336 SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE EA 13 \$18,884 \$24,549 550-4118 FLARED END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE EA 13 \$18,884 \$24,549 550-4124 FLARED END SECTION 36 IN, STORM DRAIN EA 24 \$520,97 \$12,503 550-4128 FLARED END SECTION 18 IN, STORM DRAIN EA 7 \$536.18 \$3,733 550-4228 FLARED END SECTION 30 IN, STORM DRAIN EA 4 5 \$679.18 \$10,188 550-4236 FLARED END SECTION 30 IN, STORM DRAIN EA C 4 \$1,513,03 \$21,182 550-4236 FLARED END SECTION 30 IN, STORM						
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550-4236 FLARED END SECTION 36 IN, STORM DRAIN EA 27 \$1,021.63 \$27,584						
FLARED END SECTION 42 IN, STORM DRAIN EA 14 \$1,513.03 \$21,182 \$68-2100 DROP INLET, GP 1 EA 128 \$2,524.35 \$323,1172 \$1,000						
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163-0232 TEMPORARY GRASSING AC 44 \$443.12 \$19,497 163-0240 MULCH TN 1900 \$147.33 \$279,927 163-0300 CONSTRUCTION EXIT EA 15 \$1,649.59 \$24,744 163-0503 CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3 EA 112 \$557.51 \$62,441 163-0520 CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS EA 50 \$193.05 \$39,600 163-0521 CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS EA 50 \$193.05 \$9,653 163-0523 CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE C SILT FENCE EA 650 \$165.96 \$107,874 163-0531 CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK LF 1800 \$3,98 \$7,164 163-0531 CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO - EA 6 \$8,263.21 \$49,579 163-0550 CONSTRUCT AND REMOVE SEDIMENT TRAP EA 128 \$136.05 \$17,414 165-0010 MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF 15000	008-2100	DROP INLE1, GP 1	EA			
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163-0523 CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE C SILT FENCE EA 650 \$165.96 \$107,874 163-0530 CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK LF 1800 \$3.98 \$7,164 163-0531 CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO - EA 6 \$8,263.21 \$49,579 163-0550 CONSTRUCT AND REMOVE INLET SEDIMENT TRAP EA 128 \$136.05 \$17,414 165-0010 MAINTENANCE OF TEMPORARY SILT FENCE, TP A LF 15000 \$0.47 \$7,050 165-0030 MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF 1600 \$1.03 \$1,648 165-0040 MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF 1600 \$57.86 \$20,251 165-0060 MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO - EA 6 \$1,537.49 \$9,225 165-0070 MAINTENANCE OF BALED STRAW EROSION CHECK LF 900 \$1.41 \$1,269 165-0101 MAINTENANCE OF SILT CONTROL GATE, TP 3 EA 112 \$112.04 \$12,548 165-0105 MAINTENANCE OF						
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163-0531 CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO - EA 6 \$8,263.21 \$49,579 163-0550 CONSTRUCT AND REMOVE INLET SEDIMENT TRAP EA 128 \$136.05 \$17,414 165-0010 MAINTENANCE OF TEMPORARY SILT FENCE, TP A LF 15000 \$0.47 \$7,050 165-0030 MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF 1600 \$1.03 \$1,648 165-0040 MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS EA 350 \$57.86 \$20,251 165-0060 MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO - EA 6 \$1,537.49 \$9,225 165-0070 MAINTENANCE OF BALED STRAW EROSION CHECK LF 900 \$1.41 \$1,269 165-0087 MAINTENANCE OF SILT CONTROL GATE, TP 3 EA 112 \$112.04 \$12,548 165-0101 MAINTENANCE OF CONSTRUCTION EXIT EA 15 \$588.38 \$8,826 165-1015 MAINTENANCE OF INLET SEDIMENT TRAP EA 128 \$66.45 \$11,066 167-1500 WATER QUALITY MONITORING AND SAMPLING						
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165-0030 MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF 1600 \$1.03 \$1,648 165-0040 MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS EA 350 \$57.86 \$20,251 165-0060 MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO - EA 6 \$1,537.49 \$9,225 165-0070 MAINTENANCE OF BALED STRAW EROSION CHECK LF 900 \$1.41 \$1,269 165-0087 MAINTENANCE OF SILT CONTROL GATE, TP 3 EA 112 \$112.04 \$12,548 165-0101 MAINTENANCE OF CONSTRUCTION EXIT EA 15 \$588.38 \$8,826 165-0105 MAINTENANCE OF INLET SEDIMENT TRAP EA 128 \$86.45 \$11,066 167-1500 WATER QUALITY MONITORING AND SAMPLING EA 10 \$815.46 \$8,155 171-0010 TEMPORARY SILT FENCE, TYPE A LF 3000 \$1.34 \$40,200 171-0030 TEMPORARY SILT FENCE, TYPE C LF 3200 \$3.20 \$10,240						
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167-1500 WATER QUALITY INSPECTIONS MO 30 \$844.68 \$25,340 171-0010 TEMPORARY SILT FENCE, TYPE A LF 30000 \$1.34 \$40,200 171-0030 TEMPORARY SILT FENCE, TYPE C LF 3200 \$3.20 \$10,240						
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171-0030 TEMPORARY SILT FENCE, TYPE C LF 3200 \$3.20 \$10,240						
<u>Sub-Total</u> \$773,711	171-0030	TEMPORARY SILT FENCE, TYPE C	LF			
				Sub-T	<u>otal</u>	\$773,711

CONSTRUCTION COST ESTIMATE CONCEPTUAL

Item No.	ITEMS:	Unit	Total Qty	Price	Cost
	PERMANENT EROSION CONTROL				
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	1200	\$39.24	\$47,088
603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	SY	800	\$42.99	\$34,392
603-7000	PLASTIC FILTER FABRIC	SY	2000	\$4.20	\$8,400
700-6910	PERMANENT GRASSING	AC	88	\$971.98	\$85,534
700-7000	AGRICULTURAL LIME	TN	175	\$79.99	\$13,998
700-7010	LIQUID LIME	GL	220	\$20.19	\$4,442
700-8000	FERTILIZER MIXED GRADE	TN	118	\$517.84	\$61,105
700-8100	FERTILIZER NITROGEN CONTENT	LB	4400	\$1.62	\$7,128
710-9000	PERMANENT SOIL REINFORCING MAT	SY	4000	\$3.79	\$15,160
716-2000	EROSION CONTROL MATS, SLOPES	SY	15000	\$0.90	\$13,500
			<u>Sub-</u>	<u>-Total</u>	\$290,747
636-1020 636-1033 636-2070 636-5100	SIGNING & MARKING HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 GALV STEEL POSTS, TP 7 MILEPOST SIGNS	SF SF LF EA	444 676 1677 13	\$14.23 \$17.69 \$7.41 \$133.91	\$6,318 \$11,958 \$12,427
		EA EA	38		\$1,741
653-0120 653-0170	THERMOPLASTIC PVMT MARKING, ARROW, TP 2 THERMOPLASTIC PVMT MARKING, ARROW, TP 7	EA	28	\$65.81 \$78.84	\$2,501 \$2,208
653-1704	THERMOPLASTIC FOWT MARKING, ARROW, 1F / THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	225	\$3.45	\$2,206 \$776
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF LM	17	\$1,479.92	\$25,159
653-2502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LM	16	\$1,291.48	\$20,664
653-4501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GL	13	\$1,029.73	\$13,386
653-4502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GL GL	2	\$792.83	\$1,586
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	15880	\$2.59	\$41,129
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	426	\$3.02	\$1,287
654-1001	RAISED PVMT MARKERS TP 1	EA	521	\$3.73	\$1,943
654-1003	RAISED PVMT MARKERS TP 3	EA	2398	\$3.45	\$8,273
034-1003	TAIGED I VIIII IMARKEERO II 3	LA		-Total	\$151,355
					· · ·
150-1000	MISCELLANEOUS ITEMS TRAFFIC CONTROL -	LS	1	\$500,000.00	\$500,000
153-1300	FIELD ENGINEERS OFFICE TP 3	EA EA	1	\$68,980.10	\$68,980
201-1500	CLEARING & GRUBBING -	LS		\$2,000,000.00	\$2,000,000
620-0100	TEMPORARY BARRIER, METHOD NO. 1	LF	1000	\$32.29	\$32,290
632-0003	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	EA	2	\$9,346.46	\$18,693
634-1200	RIGHT OF WAY MARKERS	EA	335	\$92.02	\$30,827
			Sub-	-Total	\$2,650,790

CONSTRUCTION SUBTOTAL =

\$16,231,850

ATTACHMENT 3 UTILITY COST ESTIMATE



engineering and constructing a better tomorrow

December 20, 2010

Mr. Tim Warren District Utilities Engineer Georgia Department of Transportation 710 West 2nd St Tifton, GA 31793-7510

Subject:

Master Contract No. TOOOUUTL100621

Completed - Preliminary Utility Cost Estimates- S.R. 133 Albany to Moultrie

STP-0000-00 (520) P.I. # 0000520, Colquitt/Worth Counties

STP-0000-00 (475) P.I. # 0000475, Dougherty County STP-0000-00 (473) P.I. # 0000473, Dougherty County STP-0000-00 (519) P.I. # 0000519, Worth County

Task Order No. 1, Job Order No. 4

Dear Mr. Warren:

MACTEC Engineering and Consulting Inc. (MACTEC) is please to submit our findings for the Reimbursable and Non-Reimbursable Utility Estimates as per your request on the above referenced projects.

The scope of services consists of MACTEC securing Reimbursable and Non-Reimbursable estimates of utility facilities owned by private or public Entities on SR 133from Albany to Moultrie.

STP-0000-00 (520) P.I. # 0000520, Colquitt/Worth Counties

		NON-
FACULITY OWNER	REIMBURSABLE	REIMBURSAPLE
AT&T	\$ 0.00	\$ 50,600.00
City of Doerun	90,000.00	160,363.70
City of Moultrie	16,500.00	0.00
Colquitt E.M.C.	0.00	752,925.27
MEAG	598,749.00	0.00
Georgia Power (Dis.)	210,802.00	0.00
Mediacom C. C.	0.00	29,790.00
Windstream Comm.	110,000.00	210,800.00
Sub Total	\$1,025,249.00	\$1,204.478.97
Total \$2,229.727.97		

Drivate Irrigation Xing around Mile Post 29.75 should be addressed in the right of way acquisition.

000-00 (475) P.I. # 0000475,	Dougherty County	NON-
FACILLITY OWNER	REIMBURSABLE	REIMBUKSABLE
AT&T	\$ 0.00	\$ 340,000.00
MCI/Verizon Business	0.00	92,500.00
Mitchell E.M.C.	469 411.27	905,146.20
Mediacom C.C.	0.00	26,318.00
Sub Total	\$469,411.37	\$1,363,964.20
10tal \$1,833,375.57		

512-0000-00 (473) P.I. # 0000473, Dougherty County

Total <u>\$4,173,806.46</u>		
Sub Totals	\$2,908,642.00	\$1,265,164.46
Mediacom C.C.	0.00	20,000.00
Southern Natural Gas Co.	524,260.00	0.00
Mitchell E.M.C.	2,111,362.00	673,714.46
Dixie Pipeline	273,000.00	0.00
Albany Water, Gas & Power	0.00	58,450.00
AT&T	\$ 0.00	\$ 513,000.00
FACILLITY OWNER	REIMBURSABLE	KENVIDLESABLE
EACH ITY OUNIED	DED (DIDCADI E	NON- REIMBLESABLE

STP-0000-00 (519) P.I. # 0000519, Worth County

		NON-
FACILLITY OWNER	REIMBURSABLE	REIMBURSABLE
A ************************************		
AT&T	\$ 0.00	\$225,000.00
Mitchell E.M.C.	521,023.70	250,863.27
Colquitt E.M.C.	0.00	198,250.20
Sub Totals	\$521,023.70	\$674,113.47
Total <u>\$1,195,137.17</u>		

Should you need additional information, please contact Donnie Murphy at 770-421-70239 or 678-776-9701.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Donnie Murphy

Utility Coordination Manager

Charles Law

Senior Principle Engineer

ATTACHMENT 4 PRELIMINARY RIGHT OF WAY COST ESTIMATE

Department of Transportation

State of Georgia

Interdepartmental Correspondence

FILE R/W Cost Estimate OFFICE Atlanta

DATE January 19, 2011

FROM Phil Copeland, Right of Way Administrator

LaShone Alexander, Right of Way Cost Estimator

TO Douglas Fadool, AVS, Project Manager

SUBJECT Preliminary Right of Way Cost Estimate

Project: STP-0000-00(519) Dougherty/Worth County

P.I. No.: 000519

Description: SR 133 Widening, Moultrie to Albany

As per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimates on the above referenced projects.

If you have any questions, please contact LaShone Alexander at

One Georgia Center 600 West Parkway Street, NW Atlanta, GA 30308,

Right of Way Office at (478) 553-1569 or (478) 232-4045.

`

PC: LA Attachments

c: File

Preliminary Right of Way Cost Estimate

Phil Copeland

P.I. Number: 000519 No. Parcels: 89

Right of Way Administrator By: LaShone Alexander

Date: January 6, 2011

Project: STP-0000-00(519)Worth Existing/Required R/W: Varies/Varies

Project Termini: SR 133 from just North of Doerun to just North

of SR 112

Project Description: SR 133 Widening, Moultrie to Albany

Land: Rural Residential

37 acres @ \$15,000/acre \$ 555,000

Agricultural

57 acres @ \$3,000/acre 171,000

\$ 726,000

Improvements: residences, double wide mobile home,

Blk. Store Bldg., frame barns & hog barn 1,250,000

Relocation: Commerical (2) 50,000

Residential (4) 160,000

Damage: Proximity

Consequential

Cost to Cure 255,000

Net Cost \$ 2,441,000

 Net Cost
 \$ 2,441,000

 Scheduling Contingency
 55%
 1,342,550

 Scheduling Contingency
 55%
 1,342,550

 Adm/Court Cost
 60%
 2,270,130

 \$ 6,053,680

Total Cost

\$6,054,000

Note: This estimate is based on estimate by consultant dated January 6, 2011.

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate

ATTACHMENT 5 FUEL ADJUSTMENT

Date

3/7/2011

P.I. Number #0000519

County

Project Number **STP00-0000-00(519)**

Special Provision, Section 109-Measurement and Payment

FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

ENTER FPL DIESEL	2.986
ENTER FPM DIESEL	6.719

ENTER FPL UNLEADED	2.672
ENTER FPM UNLEADED	6.012

Worth

http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

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III	<i>,</i> Γ	CA	⊃ ⊏ /	4DJ	U	ואו ו כ	IENT

125.00%

INCREASE ADJUSTMENT

125.00%

]	120.00%				
ROADWAY ITE		QUAN	NTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)		1	36033.000	0.29	39449.57	0.15	20404.95	
Excavations paid as sp Sections 206 (CUBIC				0.29		0.15		
GAB paid as specified by t Section 310 (TO			67189.000	0.29	48484.81	0.24	40125.36	
Hot Mix Asphalt paid as sp ton under Sections 40				2.90		0.71		
Hot Mix Asphalt paid as sp ton under Sections 40	ecified by the		07064.000		310485.60		76015.44	
PCC Pavement paid as spe square yard under Section				0.25		0.20		
BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
ClassConcrete (CY) Section 500				8.00		1.50		
ClassConcrete (CY) Section 500				8.00		1.50		
ClassConcrete (CY) Section 500				8.00		1.50		
Superstru Con Class(CY) Section 500				8.00		1.50		
Superstru Con Class(CY) Section 500				8.00		1.50		
Superstru Con Class(CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
	ı							
Concrete Barrier (LF) Section 500				8.00		1.50		

DDIDGE 175140						Unleaded		551445146
BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Factor	Gallons Unleaded	REMARKS
Stru Steel Plan Quantity (LB) Section 501				8.00		1.50		
Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50		
PSC Beams(LF)								
Section 507 PSC Beams (LF)				8.00		1.50		
Section 507 PSC Beams (LF)				8.00		1.50		
Section 507				6.00		1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00		1.50		
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50		
	l							
Bar Reinf Steel (LB) Section 511				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
Pilinginch (LF) Section 520				8.00		1.50		
						П		
Drilled Caisson, (LF) Section 524				8.00		1.50		
Drilled Caisson, (LF) Section 524				8.00		1.50		
Drilled Caisson, (LF) Section 524				8.00		1.50		
1						I		
Pile Encasement,(LF) Section 547				8.00		1.50		
Pile Encasement,(LF) Section 547				8.00		1.50		
SUM QF DIESEL= 398419.98					CIIM	I QF UNLEA	NDED=	136545.75
<u></u>	SUIVI QT	DIESEL-	3964	713.30	SUIV	I WE UNLEA		130343./3
	DIESEL PRICE ADJUSTMENT(\$)				\$1,368,134.37			
UI	UNLEADED PRICE ADJUSTMENT(\$)					\$419,	577.78	

ASPHALT CEMENT PRICE ADJUSTMENT

(BITUMINOUS TACK COAT 125% MAX)

REMARKS

APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, SECTION 413.5.01 ADJUSTMENTS
ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

ENTER APL 449 ENTER APM 1010.25

125.00% INCREASE ADJUSTMENT

L.I.N. TYPE TACK (GALLONS) TACK (TONS) 413-1000 PG 58-22 35467 152.3343

TMT = 152.3343

PRICE ADJUSTMENT(\$) \$82,077.73

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ENTER APL 449 ENTER APM 1010.25

http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

125.00% **INCREASE ADJUSTMENT** L.I.N. / Spec Number **MIX TYPE HMA** JMF AC% AC **REMARKS** 402-3130 12.5 mm SP 26651 5.00 1332.55 402-3121 25 mm SP 46168 2308.40 5.00 402-3190 19 mm SP 34245 1712.25 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5353.20 TMT =

PRICE ADJUSTMENT(\$) \$2,884,304.16

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

ENTER APL 449

ENTER APM 1010.25

125.00% INCREASE ADJUSTMENT

Use this side for Asphalt Emulsion Only

L.I.N. TYPE ASPHALT EMULSION (GALLONS)

TMT =

Use this side for Asphalt Cement Only					
L.I.N.	TYPE	TACK (GALLONS)			
413-					
1000	PG 58-22				

TMT =

REMARKS

MONTHLY PRICE ADJUSTMENT(\$)

ADJUSTMENT	SUMMARY

FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

DIESEL PRICE ADJUSTMENT(\$) \$1,368,134.37

UNLEADED PRICE ADJUSTMENT(\$) \$419,577.78

ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125%

MAX) \$82,077.73

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX \$2,884,304.16

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

REMARKS:

TOTAL ADJUSTMENTS

\$4,754,094.04

DWM 10/08

REMARKS:

ATTACHMENT 6 ENVIRONMENTAL MITIGATION COST ESTIMATE

PRELIMINARY ENVIRONMENTAL MITIGATION COST ESTIMATE

Date:February 1, 2011Project:SR 133 WideningProject No.:STP00-0000-00(519)

P.I. Number: 0000519

Project Termini: 2,000 feet north of the Colquitt/Worth County line to 1,500 feet north of

SR 112 in Worth County

Project Description: Widening of SR 133 from 2,000 feet north of the Colquitt/Worth County

line to 1,500 feet north of SR 112 in Worth County

Mitigation cost assuming a Wetland Credit cost of \$3,500 per credit and a Stream Credit cost of \$45 per credit.

Project No. STP00-0000-00(519) Required Stream Credits 4634.50 \$45.00 \$208,552.50 Total Stream Credits 4634.50 Sub-Total \$208,552.50

 Project No.
 Required Wetland Credits
 Cost of Credit

 STP00-0000-00(519)
 68.52
 \$3,500.00
 \$239,820.00

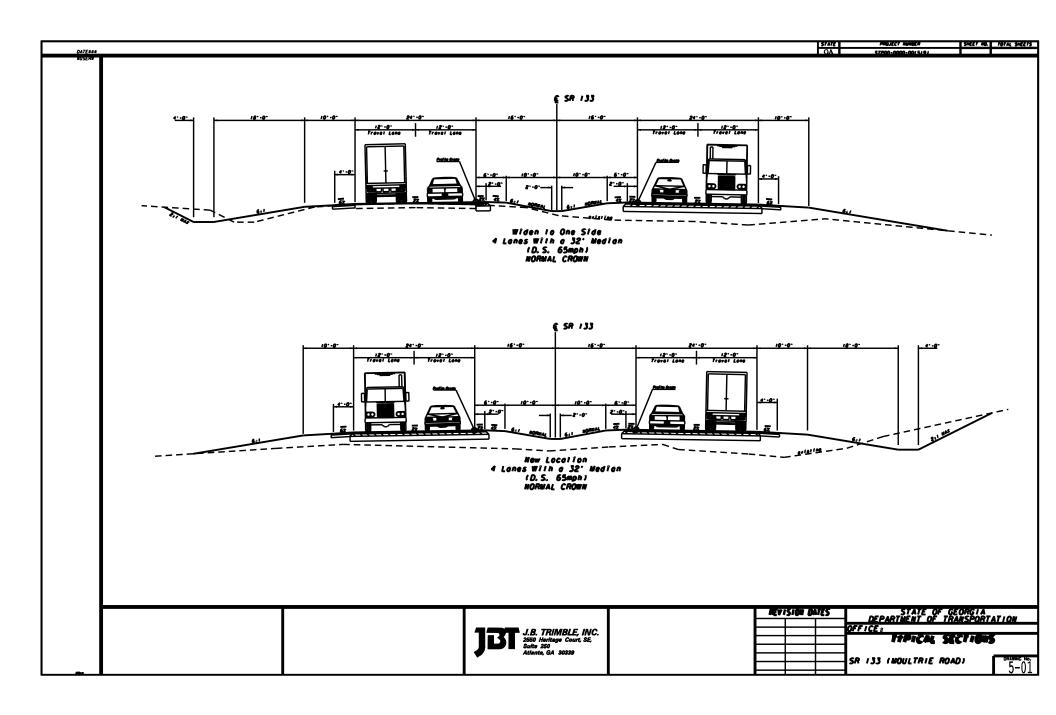
 Total Wetland Credits
 68.52
 \$3,500.00
 \$239,820.00

\$239,820.00

Sub-Total

Total \$448,372.50

ATTACHMENT 7 TYPICAL SECTIONS



ATTACHMENT 8 VALUE ENGINEERING IMPLEMENTATION LETTER

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

STP00-00(473)(475)(519)(520)

OFFICE: Engineering Services

Colquitt Dougherty Worth

P.I. Nos.: 0000473/0000475/0000519/0000520

SR 133 Widening

DATE:

June 24, 2010

FROM:

Ronald E. Wishon, State Project Review Engineer (4)

TO:

Bobby K. Hilliard, PE, State Program Delivery Engineer

Attn.: Douglas Fadool

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

The VE Study for the above projects was held January 19-22, 2010. Responses were received on June 24, 2010. Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. The Project Manager shall incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT#	Description	Potential Savings/LCC	Implement	Comments
A-1	Reduce the amount of northerly shift in the SR 133 alignment to eliminate the need to grade separate SR 33while keeping the railroad grade separation	\$1,838,000	No	This cannot be done because A-1.1 will be implemented.
A-1.1	Follow existing SR 133 alignment and construct new at-grade crossings in lieu of grade separations at SR 33 and the railroad	Proposed = \$6,807,000 Actual = \$6,787,000	Yes	This will be done. Redesign costs of \$20,000 will reduce the proposed savings.
A-6	Reduce pavement thickness for the median left turn/U-turn lanes	Proposed = \$4,755,000 Actual = \$1,804,000	Yes, partially	OMR has approved a different pavement design than what was proposed by the VE Team. The new design will consist of 6.5" of asphalt over 10" of GAB. Full depth left turn lanes will be utilized at the SR 133 and South Mock Road intersection; all others will utilize the new pavement design. This results in a revised savings of \$1,805,000 which will be reduced by \$1,000 for redesign costs.

Colquitt Dougherty Worth

STP00-0000-00(473)(475)(519)(520) P.I. Nos. 0000473/0000475/0000519/0000520 Implementation of Value Engineering Study Alternatives

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A-7	Use the minimum allowable lengths for the storage areas in the median left turn/U-turn lanes	Proposed = \$1,600,000 Actual = \$1,595,000	Yes, partially	There are 12 intersections where the total storage length will be reduced by 150 ft and 20 intersections where the total storage length will be reduced by 250 ft. Redesign costs of \$5,000 will reduce the proposed savings.
A-8	Reduce the median width from 44 ft to 32 ft for the entire length of the project	Proposed = \$878,000 Actual = \$678,000	Yes	This will be done. Redesign costs of \$200,000 will reduce the proposed savings.
A-9	Reduce the width of the paved outside shoulder from 6.5 ft to 4.0 ft	Proposed = \$1,375,000 Actual = \$1,372,500	Yes	This will be done. Redesign costs of \$2,500 will reduce the proposed savings.
B-2	Reverse the girder direction (make perpendicular to the RR alignment) of the SR 133 bridge over the Georgia/Florida Railway	\$418,000	No	This cannot be done because B-2.1 will be implemented.
B-2.1	Eliminate the SR 133 bridge over the Georgia/Florida Railway track and construct an at- grade crossing	Proposed = \$3,565,000 Actual = \$3,545,000	Yes	This will be done. Redesign costs of \$20,000 will reduce the proposed savings.
B-8	Reduce the length of the SR 133 bridge over SR 33 by reducing the clear area from 26 ft to 14 ft	\$529,000	No	This cannot be done because B-2.1 will be implemented.
D-1	Reduce all 6:1 sloped shoulder sections to 4:1 slopes throughout the entire project	\$943,000	No	Increasing the slope increases the required clear zone which will increase the amount of excavation and required ROW. The additional ROW, excavation and redesign costs would cause an overall project increase of \$1,900,000.
J-3	Substitute Type W guardrail for Type T guardrail throughout the entire project	\$892,000	Yes	This will be done.

The Office of Engineering Services concurs with the Project Manager's responses.

STP00-0000-00(473)(475)(519)(520) P.I. Nos. 0000473/0000475/0000519/0000520 Implementation of Value Engineering Study Alternatives

Colquitt Dougherty Worth

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Approved:	Deemko	Date:	7/6/10
	Gerald M. Ross, PE, Chief Engineer		

REW/LLM

Attachments

c:

Ben Buchan

Mike Haithcock/David Norwood/Douglas Fadool

Paul Liles/Bill Duvall/Bill Ingalsbe/Jenny Harris-Dunham

Alexis John

Joe Cowan/Sonja Thompson/Tony Cravey

Ken Werho Lisa Myers Matt Sanders

ATTACHMENT 9 APPROVED TRAFFIC DATA

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE STP00-0000-00(519), Worth County

P.I. # 0000519

OFFICE Planning

DATE February 14, 2011

FROM Cindy VanDyke, State Transportation Planning Administrator

TO Bobby K. Hilliard, P.E., State Program Delivery Design Engineer

Attention: Doug Fadool

SUBJECT Reviewed Design Traffic for S.R. 133 from N of Colquitt County Line to N of

S.R. 112.

As per your request, we reviewed the consultant's Design Traffic for the

above project.

The Design Traffic is approved based on the information furnished. If you

have any questions concerning this information please contact

Abby Ebodaghe at (404) 631-1923.

CLV/AFE

